

Page 18, line 14 ff, kindly amend the third paragraph, as follows:

B¹
There is further provided in accordance with a preferred embodiment of the present invention, a method for accumulating at least one sample of gas to be analyzed, wherein the end concentration of the accumulated samples is determined by the analyzer, and consisting of the steps of measuring the gas concentration, deciding whether to accumulate the at least one sample, calculating the content of the accumulated gas, and deciding whether to continue collecting further samples according to [the] whether the accumulated gas has reached a desired concentration and volume.

Page 20, penultimate line, kindly replace "Fig. 20" with -- Fig. 20A --

Page 20, last line, kindly add:

B²
-- Fig. 20B schematically shows a method of equalizing the absorptions of sample and reference gases by changing chamber length. --

Page 25, last line, kindly replace "analyzer ready" with -- analyzer is ready --.

Page 26, line 1, kindly replace "sample is executed" with -- sample are executed --.

Page 26, lines 3-4, kindly replace "signals from the four absorption channels" with

B³
-- signals from four absorption channels --.

Page 26, lines 5-6, kindly replace "Each channel, sample and zero reference" with

B⁴
-- Each channel, sample/gas reference and zero calibration --.

Page 26, lines 8-9, kindly replace "from the sample and zero reference channels" with

B⁵
-- from the sample/gas reference and zero calibration channels --.

Page 26, line 10, kindly replace "is" with -- are --.

Page 29, line 11, kindly delete the word "wherein".

Page 29, line 16, kindly add reference sign 173, to read -- elements 172, 173. --

Page 29, penultimate line, kindly replace "20" with -- 20A --.

Page 30, line 16, kindly replace "Fig. 20" with -- Fig. 20A --

Page 32, line 3, kindly replace "canulla" with -- cannula --

Page 32, penultimate line, kindly replace "sensistivity" with -- sensitivity --.

Page 33, line 2, kindly replace "26" with -- 326 --.

Page 33, line 14, kindly replace "prevelant" with -- prevalent --.

Page 35, line 3, kindly replace "3.5%" with -- 3% --.

Page 35, line 23, kindly replace "innaccuracies" with -- inaccuracies --.

Page 38, line 5, kindly replace "Fig. 10" with -- Fig. 31 --.

Page 39, line 10, kindly replace "innacuracies" with -- inaccuracies --.

Page 39, line 18, kindly replace "156" with -- 456 --.

Page 40, line 12, kindly replace "important to in order " with -- important in order --.

Page 42, line 2, kindly replace "160" with -- 460 --.